## AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for determining, in a base station controller (BSC), information for controlling transmission power of a mobile station, said information depending on a signal received from a base station transceiver system (BTS), in a mobile communication system, said mobile communication system including said mobile station for transmitting and receiving data in a predetermined period, said base station transceiver system and said base station controller for controlling said base station transceiver system, the method comprising the steps of:

receiving, in the base station controller, a reverse message from the base station transceiver system; and

determining a type of a frame included in the received reverse message; and

setting previous power control information to present power control information if the

frame type of the reverse message is a null frame indicating there is no data to transmit;

wherein power control information is for controlling transmission power of the mobile station, and said previous power control information was used prior to receipt of said null frame.

## 2. (Cancelled)

- 3. (Original) The method as claimed in claim 1, further comprising the step of: setting present power control information to increase transmission power of the mobile station, if the frame type of the reverse message is an erasure frame.
- 4. (Original) The method as claimed in claim 1, further comprising the step of: setting power control information initially defined during resource assignment to present power control information, if the frame type of the reverse message is an idle frame.
- 5. (Currently Amended) A method for determining, in a base station transceiver system (BTS), information for controlling mobile station transmission power depending on a signal received from a base station controller (BSC), in a mobile communication system, said mobile communication system including said mobile station for transmitting and receiving data in a

predetermined period, said base station transceiver system and said base station controller for controlling said base station transceiver system, the method comprising the steps of:

receiving, in the base station transceiver system, a forward message from the base station controller; and

analyzing a type of a frame included in the received forward message; and

setting previous power control information used for power control of the mobile station

prior to receipt of a null frame as present power control information for controlling transmission

power of the mobile station, if the frame type of the forward message is a null frame indicating that
there is no data to transmit.

## 6. (Cancelled)

- 7. (Original) The method as claimed in claim 5, further comprising the step of: setting power control information included in the forward message as the present power control information, if the frame type of the forward message is an idle frame.
- 8. (Original) The method as claimed in claim 5, further comprising the step of: setting present power control information to increase transmission power of the mobile station, if the type of frame of the forward message is an erasure frame.

## 9. (Cancelled)

10. (Original) A method for transmitting a signal from a base station transceiver system (BTS) to a base station controller (BSC) when there is no data transmitted from a mobile station while in discontinuous transmission (DTX) mode, in a mobile communication system, the method comprising the steps of:

detecting the discontinuous transmission (DTX) mode if there is no reverse traffic; setting a reverse traffic channel quality field to zero; and transmitting the information of the reverse link quality field to the base station controller.

11. (Original) A method for transmitting a signal from a base station transceiver system (BTS) to a base station controller (BSC) when there is no data transmitted from a mobile station while in discontinuous transmission (DTX) mode in a mobile communication system, the method comprising the steps of:

detecting the discontinuous transmission (DTX) mode if there is no reverse traffic;

setting a previous power control information at the time point where the DTX mode is detected, to a present power control information at the time point where the DTX mode is detected, to a present power control information if a DCCH forward message last received form the base station controller is not a null frame; and

transmitting the present power control information to base station controller.

12. (Original) A method for determining, in a base station controller (BSC), information for controlling transmission power of a mobile station, said information depending on a signal received from a base station transceiver system (BTS), in a mobile communication system, the method comprising the steps of:

receiving, in the base station controller, a reverse message including a reverse traffic channel quality field from the base station transceiver system;

determining whether the information of the reverse traffic channel quality field in the reverse message is zero; and

setting previous power control information to present power control information if the information of the reverse traffic channel quality field is zero.